



PATENT APPLICATION OF:

Shane D. Mattaway

Atty. Dkt. No.:

2655-0119

Appln. No.:

10/796,335

Art Unit:

2142

Filing Date:

March 8, 2004

Confirmation No.

2021

Title:

COLLABORATIVE MULTIMEDIA

ARCHITECTURE FOR PACKET-

SWITCHED DATA NETWORKS

Examiner: LE, Hieu C.

Date:

December 19, 2005

TRANSMITTAL

Hon. Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached please find the following documents, submitted for filing in connection with the aboveidentified application:

 \boxtimes General Power of Attorney

Statement under 37 C.F.R. § 3.73(b)

X Assignments (2) (copies)

Our Deposit Account No.: 501860

Our Order No. (Client-Matter No.): 2655-0119

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official document under Rule 20, or credit any overpayment, to our Account/Order Nos. (or Attorney Docket No.) shown in the heading hereof for which purpose a duplicate copy of this paper is attached.

This Charge Statement does not authorize charge of the issue fee until/unless an issue fee transmittal form is filed.

CUSTOMER NUMBER

42624

By:

Michael R. Casey, Ph.D.

Registration No. 40,294

Respectfully submitted,

Davidson Berquist Jackson & Gowdey LLP

PTO/SB/80 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby 37 CFR	•	revious powers of attorney	given in the app	lication identified	in the attached stat	ement under
	appoint:					
X Pra	ctitioners associ	ated with the Customer Number:	4	42624		
OR						
Pra	ctitioner(s) name	ed below (if more than ten patent	practitioners are to b	e named, then a cust	tomer number must be u	sed):
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as attorney	v(s) or agent(s) (to represent the undersigned before	ore the United States	Patent and Tradema	ark Office (USPTO) in co	 nnection with
any and al	Il patent applicat	ions assigned <u>only</u> to the undersic cordance with 37 CFR 3.73(b).				
Please cha	ange the corresp	ondence address for the applicat	tion identified in the	attached statement ur	nder 37 CFR 3.73(b) to:	
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Assignee N	Name and Addre	NET2PHONE, I	NC.			
		520 Broad Street	t, 8th Floor			
		Newark, New Je	•			,
A copy of	f this form, to	gether with a statement und	der 37 CFR 3.73(l) (Form PTO/SB/9	96 or equivalent) is r	equired to be
filed in ea	ach applicatio	on in which this form is used	d. The statement	under 37 CFR 3.7	73(b) may be comple	ted by one of
		inted in this form if the appo application in which this Po			act on behalf of the	assignee,
		·	TURE of Assignee	<u>-</u>		
•	The indi				behalf of the assignee	
Signature					Date 9112005	5
Name	Glenn J. V	Villiams			Telephone (973) 43	8-6066
Title	Executive	Vice President, Genera	l Counsel			
This collection			00 The 1-4		dain a hanafit bu tha nublic	. Alab is to file found

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



STATEMENT UNDER 37 CFR 3.73(b)

Applicant / Patent Owner: Shane D. Mattaway	Attorney Docket No.: 2655-0119
Application No. / Patent No. 10/796,335	Filed / Issue Date: March 8, 2004
Entitled: COLLABORATIVE MULTIMEDIA ARCHITECT NETWORKS	URE FOR PACKET-SWITCHED DATA
Assignee: Net2Phone, Inc.	A Delaware Corporation
States that it is:	
1. \boxtimes the assignee of the entire right, title, and interest; or	
2. an assignee of less than the entire right, title and int The extent (by percentage) of its ownership interest Identified above by virtue of either:	
A. An assignment from the inventor(s) of the patent ap was recorded in the United States Patent and Trade which a copy thereof is attached.	-
OR	
B. \(\sum \) A chain of title from the inventor(s), of the patent ap assignee shown below:	plication / patent identified above, to the current
1. From: Inventor To: NetSpeak Corporation	
The document was recorded in the United States Pa 0416, and for which a copy thereof is attached.	tent and Trademark Office at Reel 008771 Frame
2. From: NetSpeak Corporation To: Net2Phone, Inc.	
The document was recorded in the United States Pa, or for which a copy thereof is attached.	tent and Trademark Office at Reel Frame
3. From: To:	
The document was recorded in the United States Pa, or for which a copy thereof is attached.	tent and Trademark Office at Reel Frame
□ Copies of assignments or other documents in the chair	n of title are attached.
Separate and true copies of the original assignment do Assignment Division for recordation pursuant to 37 CF	
The undersigned (whose title is supplied below) is authorize	red to act on behalf of the assignee.
By: Irhelilles	Date: December 19, 2005
Michael R. Casey, Mh.D. Registration No. 40,294	Telephone No.: (703) 894-6406
Title: Attorney	1010phone 140 (100) 004-0400

Docket No. N0003/7019

ASSIGNMENT

Whereas I/we, Shane D. Mattaway, who resides at 826 Periwinkle, Boca Raton, FL 33486 have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled COLLABORATIVE MULTIMEDIA ARCHITECTURE FOR PACKET-SWITCHED DATA NETWORKS, identified by KUDIRKA & JOBSE, LLP, Attorney File No. N0003/7019, which application was filed on August 21, 1997 and was assigned Serial No. 08/916,091.

Whereas NETSPEAK CORPORATION whose address is 902 Clint Moore Road, Suite 104, Boca Raton, Florida 33487 and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I/we hereby acknowledge, I/we, the above named, hereby acknowledge our prior existing obligation to perform the following and hereby, without reservation:

- 1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent application in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

- 4. Warrant that I/we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same Assignee without encumbrance;
- 5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I/we have executed this Assignment as an instrument under seal on the dates indicated next to my name.

10/21/97	Shallen
DATE	Shane D. Mattaway
•	Inventor
<u>.</u>	

State of FLORIDA) County of PALM)
BRACH

On this 2/24 day of (Stober , 1997, before me appeared Shane D. Mattaway, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

ATRICIA HILDEBRAND My Commission CC412478 Notary Public Expires Oct. 10, 1998

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ASSIGNMENT AND QUIT CLAIM

WHEREAS, NetSpeak Corporation, a corporation organized and existing under the laws of the State of Florida (hereinafter referred to as "ASSIGNOR") may have rights in the pending US patent applications, the issued US patents, the granted foreign patents and the pending foreign applications set forth on Schedule 1 attached hereto (the "Intellectual Property"); and

WHEREAS, Net2Phone, Inc., a company organized and existing under the laws of the State of Delaware (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said Intellectual Property;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign, and transfer unto ASSIGNEE (1) ASSIGNOR's entire right, title and interest in and to the aforesaid Intellectual Property and the inventions described therein, and any continuation, continuation-in-part, divisional, reissue or reissues of said Intellectual Property to the full end of the term for which said Intellectual Property may be enforceable, said inventions and Intellectual Property to be held and enjoyed by the ASSIGNEE for the use and behalf of said ASSIGNEE, and for the use and behalf of their successors, assigns or other legal representatives, and (2) any and all claims for damage by reasons of infringement past and present, as fully and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.

FURTHERMORE, should ASSIGNOR have any rights to any patents or patent applications set forth on Schedule 1 that is beyond the Intellectual Property granted above (hereinafter "RESIDUAL RIGHTS"), in consideration of said sum of FIVE DOLLARS (\$5.00) and said other

valuable consideration, ASSIGNOR does hereby convey, assign and transfer to ASSIGNEE said RESIDUAL RIGHTS (including claims for damage by reasons of infringement past and present).

IN TESTIMONY WHEREOF, NetSpeak Corporation has caused these presents to be signed by its officer thereunto duly authorized.

Date: 10/6/05

Name: Glenn Williams

Title: Secretary

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Patents 46

4/5/2001

9/25/1995 Issued processing the E-mail signal through the Internet to deliver the E-72476/96 727702 set of processing units that have an on-line status with respect to second IP address to the first processing unit for establishing a point-to-point communication link between the first and second (IP) addresses between processing units to establish a point-tothe Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the response to the determination of a positive on-line status of the point communication link between the processing units through mail signal to a second processing unit; and (c) transmitting a second unit from the database using the connection server, in protocol includes the steps of (a) transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) steps of (a) storing in a database a respective IP address of a the Internet. A first point-to-point Internet protocol includes the A point-to-point Internet protocol exchanges Internet Protocol communication link between the first and second processing units through the Internet. A second point-to-point Internet second processing unit, for establishing a point-to-point processing units through the Internet. POINT-TO-POINT INTERNET PROTOCOL (AU 72476/96) MA Kenyon 12106/10 NetAdir 12345 Australia

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Prepared By: Luis J. Diaz

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764522 59378/00 POINT-TO-POINT INTERNET PROTOCOL (AU 59378/00)

internet protocol includes the steps of (a) storing in a database a exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point

establishing a point-to-point communication link between the first unit for establishing a point-to-point communication link between transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the determine the on-line status of a second processing unit; and (c) using the connection server, in response to the determination of Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing espective IP address of a set of processing units that have an retrieving the IP address of the second unit from the database and second processing units through the Internet. A second on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to (Divisional AU 7247696) A point-to-point Internet protocol a positive on-line status of the second processing unit, for the first and second processing units through the Internet. point-to-point internet protocol includes the steps of (a)

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Client Reference Description	POINT-TO-POINT INTERNET PROTOCOL (AU 59379/00) (Divisional 72476/96) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit for establishing a point-to-point communication link between the first and second processing unit for establishing a point-to-point communication link between the first and second processing unit for establishing a point-to-point communication link between the first and second processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.
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Prepared By: Luis J. Diaz

Monday, March 29, 2004

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Client	Client Reference	Description	App# Reg# Priority Status	Reg#	Priority	Status	As Of Next	Next	Due Date
NetAdir 12346	12346 <u>DAM</u>	POINT-TO-POINT INTERNET PROTOCOL (BR)	PI9610980.		9/25/1995	Initial Review	11/20/2002		
<u>Kenyon</u>	Кепуол 12.106/10	A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	establish a poin establish a poin assing units thro otocol includes o ve IP address o status with rest first processing line status of a ne IP address of nnection server on-line status o on-line status o ocint-to-point econd processi opoint Internet an E-mail sig cessing unit; (b) ternet to deliver d (c) transmittin nit for establishi	nt-lo- nt-lo- tra fra fra fra eect to unit in frhe in in ga mg a		need materials			

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Prepared By: Luis J. Diaz

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DAM	POINT-TO-POINT INTERNET PROTOCOL (CA)	2231127	2231127	9/25/1995	lssued	1/28/2003		
	A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit; for establishing a second processing unit to restablishing a second processing units through the Internet.	Internet Prot astablish a psatablish a psasing units th tocol include e IP address itatus with restitutes of situations and address in the status of a precious serving the status of th	ocol oint-to- irrough s the s the s pect to spect to d the er, in of the iing iing t t t mg a scond					

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Reg#	96197195. ZL9619719 9125/1995 tternet Protocol stablish a point-to- sing units through col includes the IP address of a alus with respect to st processing unit e status of a IP address of the ection server, in -line status of the nt-to-point and processing coint Internet an E-mail signal, sising unit; (b) net to deliver the E- c) transmitting a for establishing a effect and second
App#	96197195. Internet Protein Internet Protein Internet Protein Internet Protein Internet Protein Internet Interne
Client Reference Description	POINT-TO-POINT INTERNET PROTOCOL (CN) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a step of (a) storing in a database a respective IP address of a step of processing units that have an on-line stalus with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line stalus with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line stalus of a second unit from the database using the connection server, in response to the determination of a positive on-line stalus of the second processing unit, for establishing a point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal the lense of (a) transmitting a mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit for establishing a point-to-point communication link between the first and second processing unit through the Internet.
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establishing a point-to-point communication link between the first

a positive on-line status of the second processing unit, for

and second processing units through the Internet. A second

point-to-point Internet protocol includes the steps of (a)

determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database

using the connection server, in response to the determination of

Internet protocol includes the steps of (a) storing in a database a

respective IP address of a set of processing units that have an the processing units through the Internet. A first point-to-point units to establish a point-to-point communication link between

on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to

exchanges Internet Protocol (IP) addresses between processing

(Divisional EPO 96 933 928.2) A point-to-point Internet protocol

POINT-TO-POINT INTERNET PROTOCOL (DIV. EP)

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and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between

the first and second processing units through the Internet.

first processing unit; (b) processing the E-mail signal through the

transmitting an E-mail signal, including a first IP address, from a Internet to deliver the E-mail signal to a second processing unit;

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Client	Client Reference Description	e Des		App# Reg#	Reg#	Priority Status	Status	As Of
NetAdir 18707	18707 <u>DAM</u>		POINT-TO-POINT INTERNET PROTOCOL (EP DIVISIONAL)	03022288.		9/25/1995	Initial Review	1/12/2004
Kenyon	12106/15	(Divisite excharunits for the processor on-line query I determ retrievi using the a position and se point-transmirist processor intermediate for the first processor in the first proce	(Divisional of EP 03 022 288.3) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit; for establishing a point-to-point communication link between the first and second processing unit, for establishing a point-to-point communication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second iP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet to deliver the E-mail signal to a second processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet.	nt Internet pretween procedon link between procedon link between procedon link between st point-to-point in a datal mits that have transmitting ion server to essing unit; som the datab on the datab edeterminal sing unit, for mk between i met. A seconeps of (a) IP address, I signal through processing through processing through processing through the lirst procedition link between the lirst procedition link between the lirst procedition.	otocol essing een point base a e an a a and (c) aase tion of the first ad from a gunit; ssing			

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Priority Status Reg# processing the E-mail signal through the Internet to deliver the Eset of processing units that have an on-line status with respect to second IP address to the first processing unit for establishing a (IP) addresses between processing units to establish a point-toresponse to the determination of a positive on-line status of the point-to-point communication link between the first and second the Internet; (b) transmitting a query from a first processing unit second processing unit; and (c) retrieving the IP address of the point communication link between the processing units through protocol includes the steps of (a) transmitting an E-mail signal, mail signal to a second processing unit; and (c) transmitting a steps of (a) storing in a database a respective IP address of a the Internet. A first point-to-point Internet protocol includes the second unit from the database using the connection server, in A point-to-point Internet protocol exchanges Internet Protocol communication link between the first and second processing including a first IP address, from a first processing unit; (b) to a connection server to determine the on-line status of a units through the Internet. A second point-to-point Internet 96933928. second processing unit, for establishing a point-to-point App# processing units through the Internet. POINT-TO-POINT INTERNET Client Reference Description PROTOCOL (EP) **M**V NetAdir 12347

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Client	Jient Reference	ence	Description	App# Reg#	Reg#	Priority Status	Status	As Of Next	Next	Due Date
NetAdir 12348	l	DAM	POINT-TO-POINT INTERNET PROTOCOL (HK)	99101896, 1017192	1017192	9/25/1995 Issued	lssued	9/11/2003		
Kenyon	12106/10		A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; (d) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit for establishing a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	internet Prot establish a po issing units the cool include e IP address tatus with res tatus of it es status of it es status of it estatus of it en estatus of it ond process point interne ond process point interne on E-mail s essing unit; (c) transmitt tf for establish	ocol cont-to- cough s the s the s the c tof a a of the er, in of the sing a ignal, b) er the E- ing a cond		•			

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set of processing units that have an on-line status with respect to processing the E-mail signal through the Internet to deliver the Esecond IP address to the first processing unit for establishing a (IP) addresses between processing units to establish a point-toresponse to the determination of a positive on-line status of the the Internet; (b) transmitting a query from a first processing unit point-to-point communication link between the first and second second processing unit; and (c) retrieving the IP address of the point communication link between the processing units through protocol includes the steps of (a) transmitting an E-mail signal, mail signal to a second processing unit; and (c) transmitting a steps of (a) storing in a database a respective IP address of a the internet. A first point-to-point internet protocol includes the second unit from the database using the connection server, in A point-to-point Internet protocol exchanges Internet Protocol communication link between the first and second processing including a first IP address, from a first processing unit; (b) to a connection server to determine the on-line status of a units through the Internet. A second point-to-point Internet second processing unit, for establishing a point-to-point 9-515065 processing units through the Internet. POINT-TO-POINT INTERNET Client Reference Description PROTOCOL (JP) DAM Kenyon 12106/11 NetAdir 12349

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NetAdir 16005	7a	PO PR	INT-TO-POINT INTERNET	10-1998-7		9125/1995	Legal Review	712/2003		
Kenyon	12106/11	A F S E E E E E E E E E E E E E E E E E E	A point-to-point Internet protocol exchanges Internet Protocod (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	Internet Pro establish a p ssing units ti toood include re IP address status with re status with re status of e IP address nnection sen	oint-to- nrough ss the ss the ss of a so of the indicated in the signal, (b) signal, (c) the first a signal, (b) set the E-ting a shing a second		need material		•	

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Prepared By: Luis J. Diaz

Monday, March 29, 2004

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Monday, March 29, 2004

9/25/1995 Allowed processing the E-mail signal through the Internet to deliver the E-212126 set of processing units that have an on-line status with respect to second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet. (IP) addresses between processing units to establish a point-toresponse to the determination of a positive on-line status of the point communication link between the processing units through the Internet; (b) transmitting a query from a first processing unit second processing unit; and (c) retrieving the IP address of the steps of (a) storing in a database a respective IP address of a second unit from the database using the connection server, in protocol includes the steps of (a) transmitting an E-mail signal, mail signal to a second processing unit; and (c) transmitting a the Internet. A first point-to-point Internet protocol includes the A point-to-point Internet protocol exchanges Internet Protocol second processing unit, for establishing a point-to-point communication link between the first and second processing including a first IP address, from a first processing unit; (b) to a connection server to determine the on-line status of a units through the Internet. A second point-to-point Internet 98 2341 POINT-TO-POINT INTERNET PROTOCOL (MX) DAM

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9802207-2	A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) stoining in a database a respective IP address of a set of processing unit and atlandare an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit, and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet protocol includes the steps of (a) transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing to a second processing unit for establishing a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.
POINT-TO-POINT INTERNET PROTOCOL - SG	A point-to-point Internet protocol exchanges Internet Protoc (IP) addresses between processing units to establish a point communication link between the processing units throthe Internet. A first point-to-point Internet protocol includes steps of (a) storing in a database a respective IP address c set of processing units that have an on-line status with respite Internet; (b) transmitting a query from a first processing to a connection server to determine the on-line status of a second processing unit, and (c) retrieving the IP address o second processing unit, for establishing a point-to-point communication link between the first and second processing unit for establishing a point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signicultuding a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver mail signal to a second processing unit; (b) processing units through the Internet to deliver mail signal to a second processing unit for establish point-to-point communication link between the first and sepprocessing units through the Internet.
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Reg#	ocol inition of the of the of the of the of the of the fing a r the E- ng a hing a		5,999,965	is system strouth tic call and calls and calls and calls and per call and be considered of via a mation riging to ables a
App#	9802207.2 nlernet Prote stabilish a po cool includes ood includes is P address is P address in the status of an int-to-point ond process point Interest point Interest point Interest in E-mail si ssing unit; (b met to delive (c) transmittii (t or establish e first and se		08/914,714 5,999,965	for Compute II distribution II distribution II distribution on either cas an automa uting incomi configuring ? whing calls in miter and Acl ively couple in user infort server acconinterface en s of agent
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	POINT-TO-POINT INTERNET POINT-TO-POINT INTERNET PROTOCOL (SG) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of the second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point or esponse to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit; and very form a first processing unit for establishing a second in through the Internet to deliver the E-mail signal through the Internet to deliver the E-mail signal units processing unit for establishing a second in the Internet.		DISTRIBUTION	Full Title: Automatic Call Distribution Server for Computer Telephony Communication] An automatic call distribution system capable of receiving incorning calls originating on either circuitswitched or packet-switched networks utilizes an automatic call distribution (ACD) server for receiving and routing incoming calls and a control center module for dynamically configuring a plurality of agent processes to which the incoming calls may be transferred. The agent processes, control center and ACD server may be separated geographically, but operatively coupled via a computer network. The incoming calls contain user information which enables calls to be routed by the ACD server according to a plurality of different criteria. A graphic user interface enables a system user to dynamically monitor the status of agent
Description	POINT-TO-POINT INTERNET PROTOCOL (SG) A point-to-point Internet pro (IP) addresses between pro point communication link by the Internet. A first point-to-steps of (a) storing in a data set of processing units that the Internet; (b) transmitting to a connection server to da second processing unit; an second unit from the databh second unit from the databh second unit from the determinal second unit from the determinal second unit from the determinal second includes the steps including a first IP address, processing the E-mail sign: mail signal to a second pro second IP address to the fip point-to-point communication the processing units through the processing units through the first IP address.		AUTOMATIC CALL DIS SERVER FOR COMP.	Full Title: Automatic Telephony Communic capable of receiving i capable of receiving i switched or packet-switchell on (ACD) ser and a control center replurality of agent procurans be separated ge computer network. The which enables calls it a plurality of different system user to dynan
	POINT-TO-POINT IN PROTOCOL (SG) A point-to-point Intl (IP) addresses bet point communication the Internet; (b) traited a connection set second processing up the Internet; (c) traited a connection set second processing second unit from the Second processing communication find units through the It protocol includes the Including a first IP processing the E-mail signal to a set second IP address point-to-point communication traited and IP address point communication traited and IP address processing and	30	AUTOMA	Full Title Telephor capable (switched distribution and a con plurality of transferre may be so computer which en a plurality system u
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between the processing units through the Internet. A first point-tosecond processing unit; and (c) transmitting a second IP address unit; and (c) retrieving the IP address of the second unit from the processing units to establish a point-to-point communication link determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication ransmitting a query from a first processing unit to a connection ink between the first and second processing units through the address, from a first processing unit; (b) processing the E-mail Internet. A second point-to-point Internet protocol includes the database a respective IP address of a set of processing units server to determine the on-line status of a second processing to the first processing unit for establishing a point-to-point communication link between the first and second processing protocol exchanges Internet Protocol (IP) addresses between steps of (a) transmitting an E-mail signal, including a first IP Computer Telephony Environment A point-to-point Internet point Internet protocol includes the sleps of (a) storing in a signal through the Internet to deliver the E-mail signal to a Providing Caller Identification Based On Call Blocking In A that have an on-line status with respect to the Internet; (b) database using the connection server, in response to the 08/718,911 (C.I.P 08/533,115) [Full Title: Method and Apparatus for CALLER ID BASED CALL BLOCKING units through the Internet. IN A COMPUTER TELEPH DAM

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second processing unit; and (c) transmitting a second IP address

communication link between the first and second processing

units through the Internet.

Method and Apparatus for Delivering Automated Voice

DELIVERING AUTOMATED VOICE MESS. ANNOTATE WINRL

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Kenyon 12106/38

Messages Annotated with URL Data

to the first processing unit for establishing a point-to-point

address, from a first processing unit; (b) processing the E-mail

signal through the Internet to deliver the E-mail signal to a

steps of (a) transmitting an E-mail signal, including a first IP

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08/719,898

CALLER ID BASED ON OUTGOING

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Kenyon 12106/10

MESSAGES IN COMP. ENV.

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between the processing units through the Internet. A first point-to-

unit; and (c) retrieving the IP address of the second unit from the

database using the connection server, in response to the

determination of a positive on-line status of the second

ransmitting a query from a first processing unit to a connection

server to determine the on-line status of a second processing

database a respective IP address of a set of processing units

that have an on-line status with respect to the Internet; (b)

point Internet protocol Includes the steps of (a) storing in a

processing unit, for establishing a point-to-point communication

link between the first and second processing units through the internet. A second point-to-point Internet protocol includes the

processing units to establish a point-to-point communication link

Providing Caller Identification Based On Outgoing Messaged In

(C.I.P 08/533,115) [Full Title: Method and Apparatus for

A Computer Telephony Environmently A point-to-point Internet

protocol exchanges Internet Protocol (IP) addresses between

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communication protocol for establishing real-time, point-to-point

network includes a directory server apparatus for providing the

communications between computer users over a computer

C.I.P. of 08/533,115) [Full Title: Directory Server For Providing

ASSIGNING NETWORK ADDRESSES

DIRECTORY SERVER FOR

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NetAdir 8620

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Description

Client Reference

Dynamically Assigned Network Protocol Addresses] A

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08/719,640 6,226,678 9/25/1996

point communications between client processes over a computer

A communication protocol for establishing real-time, point-to-

client process currently connected to the computer network. The

current dynamically assigned Internet Protocol addresses of

network includes a directory server apparatus for providing

client processes can be Internet telephony applications each

interval at which client processes notify the server, depending on

the demand for server resources. DYNAMICALLY DEFINING

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Kenyon 12106/25

processes connected to the network via periodic notification from

the client processes. The server dynamically modifies the time

requesting client process, the server provides the corresponding

internet Protocol address of the entry to the requesting client

process. In accordance with a second aspect of the present

invention, the directory server monitors the status of client

network. In response to identification of one of the entries by a

internet Protocol address of a user currently connected to the

he server maintains a list of entries, each entry including the

dient processes currently connected to the computer network.

current dynamically assigned Internet Protocol addresses of

the identity of a caller dient process with the directory server and

another aspect of the invention a callee client process verifies

of functions the client process is authorized to perform. In

with yet another aspect of the invention, the feature definition is

prevent the caller client process from communicating with the callee client process in unauthorized manners. In accordance definable by either the requesting client process or the server.

is provided with the feature definition of the caller process to

accordance with one aspect of the invention, each client process

capable of performing a plurality of predefined functions. In

and receives a feature definition identifying which of the plurality

is required to connect to the server apparatus upon initialization

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lient	Client Reference	азиа.	Description	App#	Reg#	Priority Status	Status	As Of	Next	Due Date
NetAdir 8339	8339	DAM	ESTABLISHING COMM. BETWEEN PACKET-SWITCHED	08/911,133 6,347,085	6,347,085	8/16/1996	Issued	2/12/2002		
у капура	1210647		A method and apparatus for enabling communication between packet-switched data networks and circuit-switched communication networks utilizes the existing domain name system infrastructure of the Internet to resolve traditional PSTN telephone numbers into domain names, and, using one or more domain name servers, locate the network protocol address of a gateway capable of connecting an executing task on the packet-switched data network to the desired terminating apparatus on the circuit switched communication network. Also disclosed is a gateway architecture capable of performing the cross network connections as well as domain name server architecture which stores the segments of a telephone number, such as country code, area code and exchange, in a hierarchical tree	nication betwartiched domain nam domain nam e traditional 1 using one or stocol address task on the 5 time apparatu. Also disclose he cross netwarchilecture visuch as couried free ical free	veen Bosta Sof a Sof		Original certificate receive 6,347,085 (sm)	eceive 6,347,085	(sm)	
NetAdir 8642	8642	DAM	ESTABLISHING COMM. FOR BROWSER APPLICATION	915034	6,275,490	8/21/1996	panssj	8/14/2001		٠
<u>Kenyon</u>	1210642	~	A technique for initiating communications from a web browser to a destination on either a packet-switched data network or a circuit-switched communication network includes a communication utility capable of interacting with a browser utility and responsive to address information obtained from a website for establishing a communication link with the website with the other destination defined by the address information. In one embodiment, the address information may comprise either an Internet protocol address, an E-mail address, or a traditional telephone number. The communication utility further enables sharing of URL data so that once a communication link is established, the parties may examine the same website pages simultaneously while communicating over a point-to-point communication link.	m a web brook are network or does a with a browse ned from a we exebsite will wration. In o omprise either, or a tradition further enal ication link is me website point-to-poin	wser to a ar utility ebsite h the ne ar an nal oles sages		6,275,490			

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	Description App#	ı		The state of the s		43.03	Next	Due Date
PHIC	GRAPHIC USER INTERFACE FOR 08/ INTERNET	08/721,316 6,009,469		8/21/1996	lssued 1	12/28/1999		
P. of blishi blishi blishi with produce esserial produce munitude for produce	(C.I.P. of US 08/533,115) A communication utility for establishing real-time, point-to-point communications between processes over a computer network includes apparatus for querying a server as to the network protocol address of another client process, and apparatus for directly establishing a communication link with the client process upon receipt of the network protocol address from the server. In one embodiment, the utility includes a sophisticated user interface having features similar to typical telephony hardware but implementing greater flexibility with software.	for for areas of another for season of another for tess of another for the cecipt of the embodimen having feature enting greate	n er 					
THOD DADC.	METHOD AND APPARATUS FOR BROADCAST OF MULTIMEDIA Data over a computer network	09/002,988		,	Legal Review	2/26/2004		
THOD OVIDIA Spons	METHOD AND APPARATUS FOR 08/7 PROVIDING CALLED ID Responses in a computer telephony environment	08/719,639 ent			Legal Review	2/26/2004		
TABLI tween	METHOD APPARATUS FOR ESTABLISHING COMM. Between packet switched and circuit switched networks	08/911,133 networks			Legal Review	2/26/2004		
OVIDII Sed CE	METHOD APPARATUS FOR 08/718,911 PROVIDING CALLER ID Based call blocking in a computer telephony environment	08/718,911 invironment			Legal Review	2/26/2004		
THOD antinu abling works work a sized I work work work work work work work work	INTERNETIANTRANET CALLS (Continuation of US 6347085) A method and apparatus for enabling communication between packet-switched data networks and circuit-switched communication networks utilizes the existing domain name system infrastructure of the Internet to resolve traditional PSTN telephone numbers into domain names, and, using one or more domain name servers, locate the network protocol address of a gateway capable of connecting an executing task on the packet-switched data network to the desired terminating apparatus on the circuit switched communication network. Also disclosed is a gateway architecture capable of performing the cross network connections as well as domain name server architecture which stores the segments of a telephone number, such as country code, area code and exchange, in a hierarchical tree	osysos,742 pparatus for the data networks utilize of the Internation domain national forcate the of connectinity abwork to the witched aleway the province ture international forcation of the cal tree	es et to mes, g an g an y	8/14/1997	First Office Action 12/5/2003	12/5/2003		

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NetAdir 8481		DAM	MULTIMEDIA ARCHITECTURE FOR	08/916,091		8/21/1996	Examiner Review 12/12/2003	12/12/2003	<u>}</u>	
Kenyon	12106/41		Collaborative Multimedia Architecture For Packet-Switched Data Networks	ket-Switche	d Data		Completed; issue fee paid.	e paid.		
NetAdir 8470		DAM	MULTIMEDIA DATA OVER A COMPUTER NETWORK	08/719,891		9/25/1995	Legal Review	8/14/2003		
Kenyon	12106/22		(C.I.P. of US 08/533,115) Method and Apparatus For Distribution and Presentation of Multimedia Data over a Computer Network	tus For Distromputer Ne	ibution twork		Receive file matterial (sm)	ı (sm)		
NetAdir 8460 <u>Kenvon 1210</u> 6	8460 121063	DAM	NETWORK OPERATING TOOLS The present invention is directed to systems, methods, and computer program products for managing networks including network status message traffic and more particularly, systems, methods, and computer program products for preventing data overrun between a real time status manager and a network operations console.	09/575,677 methods, an works includ icularly, syst preventing or preventing and a network	ing ems, data A		Advisory Action R 12/22/2003 Completed	12722/2003		
NetAdir 8469	8469	DAM	NUMBER DOMAIN NAMES INTO NETWORK PROTOCAL ADD.	08/911,519 6,594,254	6,594,254	8/16/1996	Issued	7/15/2003		
Kenyon	<u>1230521</u>		A method and apparatus for translating a domain name representing a telephone number into a network protocol address includes a domain name server architecture containing logic responsive to a telephone number domain name, the telephone number domain name representing the country code, area code, exchange, or subscriber number of a subscriber apparatus telephone number. The logic resolves the telephone number domain name into a network protocol address usable in ultimately initiating a communication with the subscriber apparatus on a circuit-switched network. In one embodiment, a hierarchical tree of domain names and subdomain names representing the country codes, area codes and exchange codes of telephone numbers is constructed to assist in the process of resolving domain names to network protocol addresses.	nain name ook protocol oit protocol itecture control of a subscriber of address us subscriber ne embodim on am embodim on and exchang at in the procaddresses.	raining e . code, er er online able in ent, a s erecodes					

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Reg#	09/477,435 6,463,565	state in state in e is an imory state state state an imory state ass. ass. ad table ethods	08/974,652 6,377,568	all oor all cork te es a call or at wided mation e actual er a caller. nay
App#	09/477,435	ted with each little when the when the when the stat when the stat unlime when unlime when smount of me imized. The stated can be act-oriented to fit its parent of when in the stated and written in the si includes mid destroyed.	08/974,652	a calls original automatic communic communic communic components and a call in the call is call in the call is call in the call is call in the call in the call is call over a call over the path, both or diffication info the path, both or diffication info the call over a call center a special over a call o
Description	OBJECT ORIENTED TABLE DRIVEN STATE MACHINES	A finite state machine is implemented by encapsulating the portions of a state table, which are associated with each state in a state object. Each state object is instantiated when the associated state is entered and destroyed when the state is exited. Since memory is only allocated at runtime when an object is instantiated and in existence, the amount of memory required to implement the state table is minimized. The state class from which the state object is instantiated can be subclassed. In accordance with normal object-oriented class design, a subclass inherits the state table of its parent class. However, the subclass allows table rows to be added and table rows present in the parent class to be overwritten in the subclass. The state table in each state class includes methods that are called when the class is created and destroyed.	PERFORMING CALL MATCHING FOR INTERNET TELEPHONE	A technique for matching internet telephone calls originating on a packet-switched data network with legacy automatic call distribution centers on a public switched telephone network utilizes a gateway architecture to accommodate disparate network architecture and protocols. The gateway receives a call on an internet Protocol-based network, placing the call in queue at a gateway port, and places an analogous call over a traditionat PSTN line to a legacy call center. The gateway provides the call center with information identifying the port at which the IP based call is queued. The call center is provided with software capable of resolving the identification information into the network protocol address of the gateway and the actual port for establishing a dual communication path, both over a PSTN network, and an Internet protocol address to the caller. Upon connection to the gateway the legacy call center may complete both the PSTN audio communication path and the packet-switched connection, both of which appear to the caller as a single connection.
Client Reference	DAM	ম	DAM	ଷ୍ଠ
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Client	Client Reference	asuce	Description	App#	Reg#	Priority Status	Status	As Of Next	Next	Due Date
NetAdir 8468		DAM	POINT TO POINT INTERNET PROTOCOL (DIV.)	09/345,222 6,701,365	6,701,365	9/25/1995	9/25/1995 Drawings/Issue F	1/8/2004		
<u>Kenyon</u>	12106/17		(Divisional of US 08/533,115)A point-to-point Internet protocol exchanges Internet Protocof (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit; for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the linst and second processing units through the Internet.	nlemet prote stween procontine between procontine between procontine between st point-to-ping in a data inits that have ransmitting ion server to sessing unit; sessing unit; for the data determinating unit, for the between I hard. A secontine sing unit, for the between I hard. A secontine in the data sing unit, for the between I hard. A secontine in the processing in the processing first processing the internet.	ocol essing een oint base a e an a a and (c) and (c) asse ition of the first of ssing ssing essing					

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Reg#	rotocol coessing ween -point -point -point dabase a ave an g a to to to to or n the first cord or s, from a rough the ing unit; cessing between et.	08/719,554 6,131,121	uter ssigned or etween i another t of the diment, greater
App#	NET (15) A point-to-point Internet protocol (IP) addresses between processing to-point communication link between upon the internet. A first point-to-point she steps of (a) storing in a database a a set of processing units that have an ct to the Internet; (b) transmitting a sing unit to a connection server to itus of a second processing unit; and (c) of the second processing unit; and (c) of the second processing unit; for of the second processing unit; for of the second processing unit; for oint communication link between the first units through the Internet. A second otocol includes the steps of (a) gnal, including a first IP address, from a processing the E-mail signal through the mail signal to a second processing unit; cond IP address to the first processing unit; ocond IP address to the first processing unit.	08/719,55	Full Title: Point-to-Point Computer • Utility Utilitizing Dymanically Assignesses A communication utility for oint-to-point communications between network includes apparatus for the network protocol address of ameratus for directly establishing arratus for directly establishing a status for directly establishing a strong the server. In one embodim sis from the server. In one embodim ohisticated user interface having featury hardware but implementing green.
Description	POINT- TO- POINT INTERNET PROTOCOL (DIVISIONAL) (Divisional of US 08/533,115) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit; for establishing a point-to-point communication link between the first and second processing unit; though the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	POINT-TO-POINT COMP. NETW. COMM.	US 08/533,115) *Communication *Protocol Addre *Protocol Addre shing real-time, p ses over a comp ng a server as to process, and app process, and app
Reference	DAM EVIG	DAM	<u>873</u>
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NetAdir 8463	8463 DAM	POINT.TO-POINT INTERNET	09/407,270	09/407,270 6,513,066	9/25/1995	panssi	1/28/2003		
:	!	PROTOCOL (CONT.)							
Kenyon	12106/13	(Continuation of 08/533,115) A point-to-point Internet protocol	Internet prof	locol					
		exchanges Internet Protocol (IP) addresses between processing	etween proc	sessing					
		units to establish a point-to-point communication link between	ion link betv	veen					
		the processing units through the Internet. A first point-to-point	st point-to-	oint					
		Internet protocol includes the steps of (a) storing in a database a	ing in a date	spase a					
		respective IP address of a set of processing units that have an	nits that ha	ve an					
		on-line status with respect to the Internet; (b) transmitting	transmitting						
		a.query from a first processing unit to a connection server to	ction serve	5					
		determine the on-line status of a second processing unit; and (c)	essing unit;	and (c)					
		retrieving the IP address of the second unit from the database	om the data	pase					
		using the connection server, in response to the determination of	e determina	ation of					
		a positive on-line status of the second processing unit, for	sing unit, fo						
		establishing a point-to-point communication link between the first	nk between	the first					
		and second processing units through the Internet. A second	met. A seco	ā					
		point-to-point Internet protocol includes the steps of (a)	ebs of (a)						
		transmitting an E-mail signal, including a first IP address, from a	IP address,	from a					•
		first processing unit; (b) processing the E-mail signal through the	I signal thro	ugh the					
		internet to deliver the E-mail signal to a second processing unit;	nd processir	ig unit;					
		and (c) transmitting a second IP address to the first processing	e first proce	ssing					
		unit for establishing a point-to-point communication link between	cation link b	etween					
		the first and second processing units through the Internet.	the Internet	. •					

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	Status	6,687,738
	Priority Status	9/25/1995
	Reg#	Internet protocol stween processing on link between st point-to-point and in a database a nils that have an ransmitting a link server to assing unit; and (c) m the database a determination of sing unit, for m the database a determination of sing unit, for m the database a determination of sing unit, for m the database a determination of sing unit, for m the pas of (a) P address, from a signal through the d processing unit; a first processing unit; a first processing alion link between the Internet.
	App#	o9/343,27: jint Internet p s between prication link be cation link be to first point-to tioning in a da first point-to tioning in a da gig units that h (b) transmittin tection server rocessing unit, f t from the dat or the determit t from the betwee Internet. A sec resting unit, f sessing unit, f ses
	Ment Reference Description	POINT-TO-POINT INTERNET PROTOCOL (DIV) (Divisional of US 08/533,115) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit; for establishing a point-to-point communication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet to deliver the E-mail signal to a second processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet.
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								6000	Iven	Due Date	
NetAdir 8619		DAM	POINT-TO-POINT INTERNET PROTOCOL (US)	08/533,115	08/533,115 6,108,704	9/25/1995	lssued	8/22/2000			
Kenyon	12106/10		A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the sleps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit, and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	stablish a patablish a patablish a patablish a possing units the acceptance of the address at the address ection service of the address ection service of the address on the point on the point on the action of the status of the action of the	ocol oint-to- irough rough s the cof a spect to spect to spect to d the er, in of the sing t t t of the ng a hing a		Original Certificate received 6,108,704 (sm)	aceived 6,108,7	704 (sm)		
NetAdir 8472		DAM	PROVIDING IDENTIFICATION BASED RESPONSE IN A COMP.	08/719,639		9/25/1995	Examiner Review	5/29/2003			
Kenyon 1210626	<u>12106726</u>		(C.I.P. of 08/533,115) A utility for enabling real-time, point-to-point communications over computer networks between users having dynamically assigned Internet Protocol addresses includes the ability to identify incoming communications, and, based on the identity of the incoming communication, selectively responding. In one embodiment, an Information profile contained within an incoming signal is compared to a plurality of information profiles contained within the personal directory of a user, and, if a match occurs, the notification signal associated with the matched profile is generated. In an alternative embodiment, the information profile contained within the embodiment, the information profile contained within the incoming communication Includes an identifier of a notification signal which is used to select from a number of predefined notification signals resident within the user's private directory.	In-time, points between a subtractions, and addressed unications, vication, selected and profile of an addressed and according associated assoc	Ho- users and, and, ectively miained y of a iated iated		Amendment and request for continued prosecution	quest for contin.	ued prosecution		

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Client	Reference	ence.	Description	App#	Reg#	Priority Status	Status	As 0f	Next
NetAdir 8484 Kenyon 1210	8484 1210645	DAM 3	SCALABLE CALL FLOW PROCESSING APPARATUS A call flow server is disclosed that processes call flow events from a plurality of gateways bridging between traditional circuit-switched networks. The call flow server server, which may be implemented with either a single processor or multi-processor design, includes call flow engine and call flow thread manager modules capable of managing a plurality of call flow events among a plurality of threads executing on the call flow server. Each call flow event in the form of a call flow script is processed on a single thread within a selected processor. Processing each call flow script on a single thread fully utilizes the processor resources and ensures that a call flow script need not be blocked while another call flow script is running. The call flow server includes a thread manager to direct a given call flow script to a thread that has excess capacity.	09/477,101 s call flow eve works. The call flow works. The call flow so call flow so call flow so flow eve to threads within thread within we script on a and ensures and ensures manage flas excess.	ants sircuit- Ill flow Ill flow Ingle Ing a Ipts Ipts a a single Ithat a A script Ir to	1/5/1999	Amendment Due Completed	12//2003	
NetAdir 8641	8641	DAM	VIRTUAL CIRCUIT SWITCHING	08/832,74	18/832,74 6,178,453	2/18/1997	Issued	1/23/2001	
Kenron	<u>12106/33</u>	ml .	ARCHITECTURE A virtual architecture for enabling direct point-to-point communications between any processes on a network cloud utilizes a process record in which information relevant to the process is stored and propagated through a parent/child hierarchy of connection service processes and information service processes. Process records and information relating to processes are propagated throughout private clouds, public clouds and interconnecting global services to facilitate both activity based network routing and load based network routing without the use of predetermined network routing mechanisms.	nt-to-point a network cl in relevant to in parent/child and informalic ormation rela te clouds, put to facilitate bx ed network rc ed network rc	oud the man ing to silt out of the silt out of		Original certificate receive 6,178,453 (sm)	sceive 6,178,45.	8 (sm)
NetAdir 8476	8476	DAM	VIRTUAL CIRCUIT SWITCHING ARCHITECTURE	09/640,406		4/4/1997	Final Rejection Re 11/6/2003	11/6/2003	
Kenyon	1210634	কা	(Continuation of US 08/032,746) A virtual architecture for enabling direct point-to-point communications between any processes on a network doud utilizes a process record in which information relevant to the process is stored and propagated through a parent/child hierarchy of connection service processes and information service processes. Process records and information relating to processes are propagated throughout private clouds, public clouds and interconnecting global services to facilitate both activity based network routing and load based network routing without the use of predetermined network routing mechanisms.	rchitecture for ns between a coss record i coss record i d and propagi d successive propagated through ecting global ting and load mined netwon	n which aled ocesses ocesses services based oce				

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